CASIO

Congratulations upon your selection of this CASIO watch.

Applications

The built-in sensors of this watch measure barometric pressure, temperature and altitude. Measured values are then shown on the display. Such features make this watch useful when hiking, mountain climbing, or when engaging in other such outdoor activities.

Warning !

- The measurement functions built into this watch are not intended for taking measurements that require professional or industrial precision. Values produced
- by this watch should be considered as reasonable representations only. Note that CASIO COMPUTER CO., LTD. assumes no responsibility for any
- damage or loss suffered by you or any third party arising through the use of this product or its malfunction.

About This Manual



- Depending on the model of your watch, display text appears either as dark figures on a light background, or light figures on a dark background. All sample displays in this manual are shown using dark figures on a light



In this manual are shown using dark figures on a light background. Button operations are indicated using the letters shown in the illustration. Note that the product illustrations in this manual are intended for reference only, and so the actual product may appear somewhat different than depicted by an illustration

Selecting a Mode

- . The illustration below shows which buttons you need to press to navigate between modes
- In any mode (except when a setting screen, with flashing digits is on the display), press (B) to illuminate the display.



General Functions (All Modes) The functions and operations described in this section can be used in all of the modes.

Auto Return Features

- The watch returns to the Timekeeping Mode automatically if you do not perform any button operation for two or three minutes in the Alarm Mode.
 The watch will return to the Timekeeping Mode automatically if you do not perform any operation for about one hour after entering the Barometer/Thermometer Mode.
- If you leave a setting screen with flashing digits on the display for two or three minutes without performing any operation, the watch exits the setting screen automatically.
- Initial Screens

When you enter the World Time Mode or Alarm Mode, the data you were viewing when you last exited the mode appears first.

Scrolling

The (B) and (D) buttons are used on the setting screen to scroll through data on the display. In most cases, holding down these buttons during a scroll operation scrolls through the data at high speed.

Timekeeping

Use the Timekeeping Mode to set and view the current Month Dav

PM indicator THU 6.30 10:58 50 Hour Minutes Graphic

Day of

In the Timekeeping Mode, the graphic in the center of the display indicates the passage of seconds.

Things to check before using the watch

1. Check the Home City and the daylight saving time (DST) setting.

Use the procedure under "To configure Home City settings" to configure your Home City and daylight saving time settings.

Important!

Proper World Time Mode data depend on correct Home City, time, and date settings in the Timekeeping Mode. Make sure you configure these settings correctly.

2. Set the current time.

See "Configuring Current Time and Date Settings"

The watch is now ready for use.

Mode Reference Guide

Your watch has 7 "modes". The mode you should select depends on what you want to do.			
To do this:	Enter this mode:		
 View the current time and date in the Home City Configure Home City and daylight saving time (DST) settings Configure time and date settings 	Timekeeping Mode		
View the barometric pressure and temperature at your current location	Barometer/Thermometer Mode		
 View the altitude at your current location Determine the altitude differential between two locations (reference point and current location) 	Altimeter Mode		
View the current time in one of 48 cities (31 time zones) around the globe	World Time Mode		
Use the stopwatch to measure elapsed time	Stopwatch Mode		
Use the countdown timer	Countdown Timer Mode		
Set an alarm time	Alarm Mode		



Configuring Home City Settings

There are two Home City settings: actually selecting the Home City and selecting either standard time or daylight saving time (DST).



To configure Home City settings

- To configure Home City settings 1. In the Timekeeping Mode, hold down (a) until the currently selected city code (Home City) starts to flash. This is the city code starts to flash, the message SET Hold will appear on the display. Keep (a)
 - depressed until SET Hold disappears and the city code starts to flash
 - The watch will exit the setting mode automatically if you do not perform any operation for about two or three minutes. For details about city codes, see the "City Code
- Table' 2. Press (D) (East) and (B) (West) to select the city code
 - you want to use as your Home City. Keep pressing (D) or (B) until the city code you want to select as your Home City appears on the display.
- 3. Press O to display the DST setting screen. Press (i) to toggle between Daylight Saving Time (On) and Standard Time (OFF).
 Note that you cannot switch between standard time and daylight saving time (DST) while UTC is selected as your Home City.
- After all the settings are the way you want, press (a) to return to the Timekeeping Mode.
 The DST indicator appears to indicate that Daylight Saving Time is turned on. Note

- After you specify a city code, the watch will use UTC* offsets in the World Time Mode to calculate the current time for other time zones based on the current time in your Home City. * Coordinated Universal Time, the world-wide scientific standard of timekeeping. The reference point for UTC is Greenwich, England.

Seconds

DST indicator

Hour : Minutes



Setting

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hPa values

0.15 inHg values

Current pressure greater than most recent measured

To change the Daylight Saving Time (summer time) setting



In the Timekeeping Mode, hold down (A) until the currently selected city code (Home City) starts to flash. This is the city code setting screen.
 Before the city code starts to flash, the message SET Hold will appear on the display. Keep (A) depressed until SET Hold disappears and the city code starts to flash.

code starts to flash

2. Press (C) to display the DST setting screen.

Press (1) to toggle between Daylight Saving Time (On) and Standard Time (OFF).

4. After all the settings are the way you want, press (A) to return to the Timekeeping Mode.
The DST indicator appears to indicate that Daylight Saving Time is turned on.

Configuring Current Time and Date Settings

You can use the procedure below to adjust the current time and date settings if they

To change the current time and date settings



ŧ Temperature Button Operation Tone On/Off Barometer Altitude Day unit unit unit Duration

. The following steps explain how to configure timekeeping settings only

4. When the timekeeping setting you want to change is flashing, use B and/or D to change it as described below.

Screen	To do this:	Do this:	
TYO	Change the city code	Use (D) (East) and (B) (West).	
0F F	Toggle between Daylight Saving Time (On) and Standard Time (OFF).	Press D.	
1 2 H	Toggle between 12-hour (12H) and 24-hour (24H) timekeeping.	Press D.	
50	Reset the seconds to 00	Press D.	
[°] 10:58	Change the hour or minute	Use (D) (+) and (B) (-).	
2011 6,30	Change the year, month, or day		

5. Press (A) to exit the setting screen.

Note

- Note For information about selecting a Home City and configuring the DST setting, see "Configuring Home City Settings". * While 12-hour format is selected for timekeeping, a **P** (PM) indicator will appear for times from noon to 11:59 p.m. No indicator appears for times from midnight to 11:59 a.m. With 24-hour format, time is displayed from 0:00 to 23:59, without any **P** (PM) indicator.
- . The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have the watch's battery replaced.

Barometer/Thermometer

This watch uses a pressure sensor to measure air pressure (barometric pressure) and a temperature sensor to measure temperature.



To enter and exit the Barometer/Thermometer Mode 1. While in the Timekeeping Mode, press © to enter the Barometer/Thermometer Mode. BARO will appear on the display, indicating

that barometric pressure and temperature measurements are in progress. The measurement results will appear on the display after about five

After you press (b), the watch will take readings every five seconds for the first three minutes, and then every two minutes after that.

pressure

Press (© five times to return to the Timekeeping Mode.
 The watch will return to the Timekeeping Mode automatically if you do not perform any operation for about one hour after entering the Barometer/Thermometer Mode.

Barometric Pressure

Barometric pressure is displayed in units of 1 hPa (or 0.05 inHg). The displayed barometric pressure value changes to -- - if a measured barometric pressure falls outside the range of 260 hPa to 1,100 hPa (7.65 inHg to 32.45 inHg). The barometric pressure value will reappear as soon as the measured barometric pressure is within the allowable range.

Temperature

- Temperature is displayed in units of 0.1°C (or 0.2°F)
- The displayed temperature value changes to ---°C (or °F) if a measured temperature falls outside the range of -10.0°C to 60.0°C (14.0°F to 140.0°F). The temperature value will reappear as soon as the measured temperature is within the dispublic reaponer. temperature valu allowable range.

Display Units

You can select either hectopascals (hPa) or inchesHg (inHg) as the display unit for the measured barometric pressure, and Celsius (°C) or Fahrenheit (°F) as the display unit for the measured temperature value. See "To specify temperature, barometric pressure, and altitude units"

Barometric Pressure Differential Pointer



This pointer indicates the relative difference between the most recent barometric pressure reading and the current barometric pressure value displayed in the Barometer/Thermometer Mode.

surec

Reading Barometric Pressure Differential Pointer

Pressure differential is indicated in the

range of ±5 hPa, in 1-hPa units If the pointer is located here: It means this: Pressure is falling and weather will tend to CLOUDY (-)



shows what the pointer would indicate when the calculated pressure differential is approximately –3 hPa (approximately –0.09 inHg).

Barometric pressure is calculated and displayed using hPa as the standard. The barometric pressure differential also can be read in inHg units as shown in the illustration (1 hPa \approx 0.03 inHg).

Pressure Sensor and Temperature Sensor Calibration

The pressure sensor and temperature sensor built into the watch are calibrated at the factory and normally require no further adjustment. If you notice serious errors in the pressure readings and temperature readings produced by the watch, you can calibrate a sensor to the reading of another device to correct the errors.

Important!

- Incorrectly calibrating the temperature sensor can result in incorrect readings.
 Carefully read the following before doing anything.
 Compare the readings produced by the watch with those of another reliable and accurate thermometer.
 If adjustment is required, remove the watch from your wrist and wait for 20 or 30 minutes to give the temperature of the watch time to stabilize.

To calibrate the pressure sensor and the temperature sensor Take a reading with another measurement device to determine the exact current barometric pressure or



- temperature. 2. With the watch in the Timekeeping Mode, press C to enter the Barometer/Thermometer Mode.
- Hold down

 multi the current temperature value starts to flash on the display. This is the setting screen.
 Before the temperature value starts to flash, the message SET Hold will appear on the display. Keep
 depressed until SET Hold disappears.

4. Press (C) to move the flashing between the temperature value and barometric pressure value, to select the one vou want to calibrate

- 5. Use D (+) and B (–) to adjust the calibration value in the units shown below. Temperature Barometric Pressure 0.1°C (0.2°F) 1 hPa (0.05 inHg)

 - Batoline is the same time. OFF will appear at the flashing value to its initial factory default setting, press
 (B) and (D) at the same time. OFF will appear at the flashing location for about one second, followed by the initial default value.
- 6. Press (A) to return to the Barometer/Thermometer Mode screen

Barometer and Thermometer Precautions

- Barometer and Thermometer Precautions
 The pressure sensor built into this watch measures changes in air pressure, which you can then apply to your own weather predictions. It is not intended for use as a precision instrument in official weather prediction or reporting applications.
 Sudden temperature changes can affect pressure sensor readings.
 Temperature measurements are affected by your body temperature (while you are wearing the watch), direct sunlight, and moisture. To achieve a more accurate temperature measurement, remove the watch from your wrist, place it in a well ventilated location out of direct sunlight, and wipe all moisture from the case. It takes approximately 20 to 30 minutes for the case of the watch to reach the actual surrounding temperature.

Altimeter

The watch displays altitude values based on air pressure readings taken by a built-in

How the Altimeter Measures Altitude

The altimeter can measure altitude based on its own preset values (initial default method) or using a reference altitude specified by you.

When you measure altitude based on preset values

Data produced by the watch's barometric pressure sensor is converted to approximate altitude based on ISA (International Standard Atmosphere) conversion values stored in watch memory.

When you measure altitude using a reference altitude specified by you After you specify a reference altitude, the watch uses that value to convert barometric pressure readings to altitude



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When mountain climbing, you can specify a reference altitude value in accordance with a marker along the way or altitude information from a map. After that, the altitude readings produced by the watch will be more accurate than they would without a reference altitude value.

To take an altimeter reading

1. Make sure the watch is in the Timekeeping Mode Current time



- 2. Press D to start Altimeter measurement Press () to start Attimeter measurement. **ALTI** will appear on the display, indicating that Attimeter measurement is in progress. The first reading will appear on the display after about four or five seconds. • The current altitude value is displayed in units of 5 meters (00 feat)
- meters (20 feet). After the first reading is obtained, the watch continues to take altimeter readings automatically every five seconds for the first three minutes, and
- then every two minutes after that. . If you leave the watch in the Altimeter Mode, it will update the displayed altitude
- value regularly. Temperature is measured in the Barometer/Thermometer Mode and in the
- Altimeter Mode, For details about temperature readings, see "Temperature"
- 3. After you are finished using the Altimeter, press (C) to return to the Timekeeping
 - Who and the stop auto measurement.
 The watch will return to the Timekeeping Mode automatically if you do not perform any operation for about 10 hours after entering the Altimeter Mode.

- The measurement range for altitude is –700 to 10,000 meters (–2,300 to 32,800
- feet) feet).
 The displayed altitude value changes to ---- if an altitude reading falls outside the measurement range. An altitude value will reappear as soon as the altitude reading is within the allowable range.
 Normally, displayed altitude values are based on the watch's preset conversion values. You also can specify a reference altitude value, if you want. See "Specifying a Reference Altitude Value" blow.
 You can change the unit for displayed altitude values to either meters (m) or feet (ft). See "To specify amount of the provide value" blow.

- See "To specify temperature, barometric pressure, and altitude units"

Specifying a Reference Altitude Value

The altitude readings produced by this watch are subject to error caused by changes in air pressure. Because of this, we recommend that you update the reference altitude value whenever accurate altitude information is available during your climb. After you specify a reference altitude value, the watch adjusts its air-pressure-to-altitude conversion calculation accordingly.

To specify a reference altitude value



- 1. In the Altimeter Mode, hold down (A) until the current reference altitude value starts to flash. This is the setting screen.
- Before the reference altitude value starts to flash, the message SET Hold will appear on the display Keep (A) depressed until SET Hold disappears.
- 2 Press (0) (+) or (8) (-) to change the current reference altitude value by 5 meters (or 20 feet).
 * Specify a reference altitude value based on accurate altitude information about your current location from a map, etc.
- You can set the reference altitude value within the range of -10,000 to 10,000
- Pressing (B) and (D) at the same time returns to OFF (no reference altitude value), so the watch performs air pressure to altitude conversions based on preset data only.
- 3. Press (A) to exit the setting screen.

How does the altimeter work?

Generally, air pressure and temperature decrease as altitude increases. This watch bases its altitude measurements on International Standard Atmosphere (ISA) values stipulated by the International Civil Aviation Organization (ICAO). These values define relationships between altitude, air pressure, and temperature.

Altitude	Air	Pressure	Tem	perature
4000 m	616 hPa A	bout 8 hPa per 100 m	<u>-11°C</u>	
3500 m 3000 m	701 hPa A	bout 9 hPa per 100 m	<u>-4.5°C</u>	About 6.5°C
2500 m 2000 m	795 hPa A	bout 10 hPa per 100 m	2°C	per 1000 m
1500 m 1000 m	899 hPa A	bout 11 hPa per 100 m	<u>8.5°C</u>	
500 m 0 m	1013 hPa A	bout 12 hPa per 100 m	15°C	

140001 12000 ft 19.03 inHg About 0.15 inHg per 200 ft. ______16.2°F 10000 ft. 8000 ft. 22.23 inHg About 0.17 inHg per 200 ft. _____30.5°F About 3.6°F per 1000 ft. . 6000 ft About 0.192 inHg per 200 ft. 44.7°F 25.84 inHg 4000 ft 2000 ft. About 0.21 inHg per 200 ft. 29.92 inHg 59.0°F 0 ft.

Source: International Civil Aviation Organization

Note that the following conditions will prevent you from obtaining accurate readings: When air pressure changes because of changes in the weather Extreme temperature changes When the watch itself is subjected to strong impact

There are two standard methods of expressing altitude: Absolute altitude and relative altitude. Absolute altitude expresses an absolute height above sea level. Relative altitude expresses the difference between the height of two different places.



Altimeter Precautions

- This watch estimates altitude based on air pressure. This means that altitude readings for the same location may vary if air pressure changes. The semiconductor pressure sensor used by the watch for altitude measurements is also affected by temperature. When taking altitude measurements, do not subject
- is also affected by temperature. When taking altitude measurements, do not subject the watch to temperature changes.
 Do not rely upon this watch for altitude measurements or perform button operations while sky diving, hang glicding, or paraglidding, while riding a gyrocopter, glider, or any other aircraft, or while engaging in any other activity where there is the chance of sudden altitude changes.
 Do not use this watch for measuring altitude in applications that demand professional or industrial level precision.
 Remember that the air inside of a commercial aircraft is pressurized. Because of this, the readings produced by this watch will not match the altitude readings announced or indicated the flight crew.

Specifying Temperature, Barometric Pressure, and Altitude Units

Use the procedure below to specify the temperature, barometric pressure, and altitude units to be used in the Barometer/Thermometer Mode and the Altimeter Mode.

Important!

τ. D

When TYO (Tokyo) is selected as the Home City, the altitude unit is set automatically to meters (**m**), the barometric pressure unit to hectopascals (**hPa**), and the temperature unit to Celsius (**°C**). These settings cannot be changed.

To specify temperature, barometric pressure, and altitude units

- 1. In the Timekeeping Mode, hold down (A) until the currently selected city code starts Before the city code setting screen.
 Before the city code starts to flash, the message SET Hold will appear on the display. Keep (a) depressed until SET Hold disappears and the city code city code
- starts to flash
- Keep pressing © until TEMP (temperature), ALTI (altitude), or BARO (barometric pressure) appears in the upper left corner of the screen.
 See step 3 under "To change the current time and date settings" for information
- about how to scroll through setting screens.

3. Perform the operations below to specify the units you want.

To specify this unit:	Press this key:	To toggle between these settings:	
Temperature	D	°C (Celsius) and °F (Fahrenheit)	
Altitude	D	m (meters) and ft (feet)	
Barometric Pressure	D	hPa (hectopascals) and inHg (inches of mercury)	

4. After the settings are the way you want, press (A) to exit the setting screen

Precautions Concerning Simultaneous Measurement of Altitude and Temperature

Though you can perform altitude and temperature measurements at the same time, you should remember that each of these measurements requires different conditions for best results. With temperature measurement, it is best to remove the watch from your wrist in order to eliminate the effects of body heat. In the case of altitude measurement, on the other hand, it is better to leave the watch on your wrist, because desired because the under the generative which exciting the temperature. doing so keeps the watch at a constant temperature, which contributes to more accurate altitude measurements.

- accurate attitude measurements. To give attitude measurement priority, leave the watch on your wrist or in any other location where the temperature of the watch is kept constant. To give temperature measurement priority, remove the watch from your wrist and allow it to hang freely from your bag or in another location where it is not exposed to direct sunlight. Note that removing the watch from your wrist can affect pressure access reading measurement. sensor readings momentarily.

Checking the Current Time in a Different Time Zone

Currently selected World Time City NYC 10:58 ~8:58 50 10

Current Timek Mode time eeping nt time in the currently ted World Time City

NYC 10:58



You can use the World Time Mode to view the current time in one of 31 time zones (48 cities) around the globe. The city that is currently selected in the World Time Mode is called the "World Time City". To enter the World Time Mode

Use © to select the World Time Mode (WT) as shown in "Selecting a Mode". WT will appear on the display for about one second

Next, the display will change to show the city code of the currently selected World Time City.

To view the time in another time zone In the World Time Mode, use D (East) to scroll through city codes.

or daylight saving time (DST) for a city

Saving Time setting you want to change.

- 2. Hold down (A) until **DST Hold** appears on the display and then disappears. Release (A) after **DST Hold** disappears
 - Isappears. This toggles the city code you selected in step 1 between Daylight Saving Time (**DST** indicator displayed) and standard time (**DST** indicator not displayed).

- You cannot use the World Time Mode to change the current standard time/ daylight saving time (DST) setting of the Home City.
 Note that you cannot switch between standard time/daylight saving time (DST) while UTC is selected as the World Time City.
 Note that the standard time/daylight saving time (DST) setting affects only the currently selected time zone. Other time zones are not affected.
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Using the Stopwatch

The stopwatch measures elapsed time, split times, and two finishes

hours



To enter the Stopwatch Mode Use © to select the Stopwatch Mode (STW) as shown in "Selecting a Mode". STW will appear on the display for about one second. Next, the display will change to show the stopwatch

To perform an elapsed time operation

D (A) Start Stop (Restart) (Stop) Reset

To pause at a split time

D (D) Split release Stop Start Split (SPL displayed) Reset

To measure two finishes

D				A
Start	Split First runner finishes. Display time of	Stop Second runner finishes.	Split release Display time of second runner	Reset

Note

- The Stopwatch Mode can indicate elapsed time up to 23 hours, 59 minutes, 59.99 seconds
- Once started, stopwatch timing continues until you press (a) to stop it, even if you
 exit the Stopwatch Mode to another mode and even if timing reaches the stopwatch limit defined above
- Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement.

Using the Countdown Timer

Current time

The countdown timer can be configured to start at a preset time, and sound an alarm when the end of the countdown is reached.

To enter the Countdown Timer Mode

Use () to select the Countdown Timer Mode (TMR) as shown in "Selecting a Mode". • TMR will appear on the display for about one second. Next, the display will change to show the countdown _<u>0H_10:</u>58\B -10'00 time hours.

To specify the countdown start time 1. Enter the Countdown Timer Mode.

l Countdown time (Hour, minutes, seconds)

ന

Enter the Countown Timer wode.
If a countdown is in progress (indicated by the seconds counting down), press () to stop it and then press () to reset to the current countdown start time.
If a countdown is paused, press () to reset to the current down down the paused. current countdown start time.

- 2. Hold down (A) until the hour setting of the current countdown start time starts to
- flash. This is the setting screen.
 Before the hour setting starts to flash, the message SET Hold will appear on the display. Keep (a) depressed until SET Hold disappears and the hour setting starts to flash.
- 3. Press (C) to move the flashing between the hour and minute settings.
- 4. Use (D) (+) and (B) (-) to change the flashing item.
 To set the starting value of the countdown time to 24 hours, set 0H 00'00.
- 5. Press (A) to exit the setting screen.

To perform a countdown timer operation

D ()		10 D D D D D D D D D D D D D D D D D D D		
Start	Stop	(Restart)	(Stop)	Reset
D		> D	D	A
•		•		

Before starting a countdown timer operation, check to make sure that a countdown operation is not already in progress (indicated by the seconds counting down). If it is, press () to stop it and then () to reset to the countdown start time.
 An alarm will sounds for five seconds when the end of the countdown is reached. This alarm will sound in all modes. The countdown time is reset to its starting value

automatically when the alarm sounds

To stop the alarm

Press any button.

Using the Alarm



You can set five independent daily alarms. When a daily alarm is turned on, an alarm tone will sound for about 10 alarm is turned on, an alarm tone will sound for about 10 seconds each day when the time in the Timekeeping Mode reaches the preset alarm time. This is true even if the watch is not in the Timekeeping Mode. You can also turn on an Hourly Time Signal, which will cause the watch to beep twice every hour on the hour.

To enter the Alarm Mode Use © to select the Alarm Mode (ALM) as shown in

- Use (© to select the Alarm Mode (ALM) as shown in "Selecting a Mode". ALM will appear on the display for about one second. Next, the display will change to show an alarm number (AL1 through AL5) or the SIG indicator. The alarm number indicates an alarm screen. SIG is shown when the Hourly Time Signal screen is on the display. When you enter the Alarm Mode, the data you were viewing when you last exited the mode appears first.

To set an alarm time







- Hold down
 A until the alarm time starts to flash. This is the setting screen.
 Before the alarm time starts to flash, the message SET Hold will appear on the display. Keep
 A depressed until SET Hold disappears and the alarm time starts to flash.
- 3. Press C to move the flashing between the hour and minute settings.
- 4. While a setting is flashing, use (1) (+) and (8) (-) to change it.
 When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. (no indicator) or p.m. (P indicator).

5. Press A to exit the setting screen.

To test the alarm

In the Alarm Mode, hold down (D) to sound the alarm

To turn an alarm and the Hourly Time Signal on and off

- 1. In the Alarm Mode, use D to select an alarm or the Hourly Time Signal.
- 2. When the alarm or the Hourly Time Signal you want is selected, press A to toggle it between on and off



 The alarm on indicator (when any alarm is on) and the Hourly Time Signal on indicator (when the Hourly Time Signal is on) are shown on the display in all modes.

Hourly time signal on indicator Alarm on indicator

To stop the alarm Press any button.

Illumination



The display of the watch is illuminated for easy reading in the dark. To turn on illumination

To turn on infumation In any mode (except when a setting screen is on the display), press (B to illuminate the display. • You can use the procedure below to select either one second or three seconds as the illumination duration. When you press (B, the display will remain illuminated for about one second or three seconds, depending on the owned the second or three seconds. the current illumination duration setting.

To change the illumination duration

- orrange use inumination duration
 In the Timekeeping Mode, hold down (a) until the currently selected city code starts to flash. This is the city code starts green.
 Before the city code starts to flash, the message SET Hold will appear on the display. Keep (a) depressed until SET Hold dispapears and the city code starts to flash.
- 2. Keep pressing © until LT1 or LT3 is displayed in the upper left corner of the
- display.
 See step 3 under "To change the current time and date settings" for information about how to scroll through setting screens.
- Press (D) to toggle the illumination duration between three seconds (LT3 displayed) and one second (LT1 displayed).
- 4. After the settings are the way you want, press (A) to exit the setting screen

Button Operation Tone

The button operation tone sounds any time you press one of the watch's buttons. You

an turn the button operation tone on or off as desired.
Even if you turn off the button operation tone, the alarm, Hourly Time Signal, and Countdown Timer Mode alarm all operate normally.

To turn the button operation tone on and off



Mute indicat

1. In the Timekeeping Mode, hold down (A) until the currently selected city code starts to flash. This is the

- city code setting screen. Before the city code starts to flash, the message SET Hold will appear on the display. Keep (A) depressed until SET Hold disappears and the city depressed until SE code starts to flash
- 2. Keep pressing (C) until MUTE or KEY) is displayed in the upper left corner of the display
 - See step 3 under "To change the current time and date settings" for information about how to scroll through setting screens.
 - 3. Press ⁽) to toggle the button operation tone between on (KEY) and off (MUTE).
 - 4. After the settings are the way you want, press (A) to exit the setting screen. Note
 - . The mute indicator is displayed in all modes when the button operation tone is turned off.
- 4





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Troubleshooting

Time Setting

The current time setting is off by hours.

Your Home City setting may be wrong. Check your Home City setting and correct it, if necessary

The current time setting is off by one hour.

You may need to change your Home City's standard time/daylight saving time (DST) setting. Use the procedure under "To change the current time and date settings" to change the standard time/daylight saving time (DST) setting.

Sensor modes

I can't change the temperature, barometric pressure, and altitude units. When **TYO** (Tokyo) is selected as the Home City, the altitude unit is set automatically to meters (m), the barometric pressure unit to hectopascals (hPa), and the temperature unit to Celsius (°C). These settings cannot be changed.

■ The battery indicator () appears while a sensor operation is being



performed

The battery indicator appears in the upper left corner of the digital display whenever there is not enough battery power available to perform a sensor operation in the Barometer/Thermometer Mode or Altimeter Mode. Sensor operation is disabled while the battery indicator is displayed. Normal operation should return after battery power recovers

"ERR" appears while a sensor operation is in progress.

Subjecting the watch to strong impact can cause sensor malfunction or improper contact of internal circuitry. When this happens, **ERR** (error) will appear on the display and sensor operations will be disabled.



If ERR appears while a measurement operation is being performed in a sensor mode, restart the measurement. If ERR appears on the display again, it can mean there is

- something wrong with the sensor. Barometer/Thermometer Mode and Altimeter Mode sensor operations are disabled Barometer/I hermometer Mode and Altmeter Mode sensor operations are disabled whenever there is not enough battery power available to perform a sensor operation. This is true regardless of the current battery level. In this case, ERR will appear on the display. This does not indicate malfunction, and sensor operation should resume once battery voltage returns to its normal level.
 If ERR keeps appearing during measurement, it could mean there is a problem with the applicable percent.
- the applicable sensor. Whenever you have a sensor malfunction, take the watch to your original dealer or

nearest authorized CASIO distributor as soon as possible

The barometric pressure differential pointer does not appear on the display when I enter the Barometer/Thermometer Mode.

The barometric pressure differential pointer is not displayed when the displayed current barometric value is outside of the allowable measurement range (260 to 1,100 hPa).

World Time Mode

The time for my World Time City is off in the World Time Mode. This could be due to incorrect switching between standard time and daylight saving time. See "To specify standard time or daylight saving time (DST) for a city" for more information.

Specifications

Accuracy at normal temperature: ±30 seconds a month

Timekeeping: Hour, minutes, seconds, p.m. (P), month, day, day of the week Time format: 12-hour and 24-hour Calendar system: Full Auto-calendar pre-programmed from the year 2000 to 2099 Other: Home City code (can be assigned one of 48 city codes); Standard Time / Daylight Saving Time (summer time)

Altimeter: Measurement range: -700 to 10,000 m (or -2,300 to 32,800 ft.) without reference Display range: -10,000 to 10,000 m (or -32,800 to 32,800 ft.)

Negative values can be caused by readings produced based on a reference altitude or due to atmospheric conditions.

Display unit: 5 m (or 20 ft.) Measurement timing: 5-second interval for first 3 minutes followed by 2-minute interval for next 10 hours Other: Reference altitude setting

Barometer:

ometer: Measurement and display range: 260 to 1,100 hPa (or 7.65 to 32.45 inHg) Display unit: 1 hPa (or 0.05 inHg) Measurement timing: 5-second interval for first 3 minutes followed by 2-minute interval for next 10 hours in the Barometer/Thermometer Mode Other: Calibration; Barometric pressure differential pointer

Measurement timing: Second and product and points a point of the point Other: Calibration

Pressure Sensor Precision:

	Conditions (Altitude)	Altimeter	Barometer	
Fixed	0 to 6000 m 0 to 19680 ft.	± (altitude differential × 2% + 15 m) m ± (altitude differential × 2% + 50 ft.) ft.	± (pressure differential × 2% + 2 hPa) hPa ± (pressure differential × 2% + 0.059 inHg) inHg	
temperature	6000 to 10000 m 19680 to 32800 ft.	± (altitude differential × 2% + 25 m) m ± (altitude differential × 2% + 90 ft.) ft.		
Effect of variable temperature	0 to 6000 m 0 to 19680 ft.	± 50 m every 10°C ± 170 ft. every 50°F	± 5 hPa every 10°C ± 0.148 inHg every 50°F	
	6000 to 10000 m 19680 to 32800 ft.	± 70 m every 10°C ± 230 ft. every 50°F		

Values are guaranteed for a temperature range of -10°C to 40°C (14°F to 104°F).
 Precision is lessened by strong impact to either the watch or the sensor, and by temperature extremes.

Temperature Sensor Precision:

±2°C (±3.6°F) in range of −10°C to 60°C (14.0°F to 140.0°F) World Time: 48 cities (31 time zones) Other: Daylight Saving Time/Standard Time

Stopwatch: Measuring unit: 1/100 second Measuring capacity: 23:59' 59.99" Measuring modes: Elapsed time, split time, two finishes

Countdown Timer: Measuring unit: 1 second

Countdown start time setting range: 1 minute to 24 hours (1-hour increments and 1-minute increments)

Alarms: 5 Daily alarms; Hourly time signal

Illumination: LED (Light-emitting diode); Selectable illumination duration (approximately 1 second or 3 seconds)

Other: Low-temperature resistance (-10°C/14°F); Button operation tone on/off

Battery: One lithium battery (Type: CR2016) Approximate battery operating time: 3 years under the following conditions: • 1 illumination operation (1.5 seconds) per day

10 seconds of alarm operation per day
10 hours of altimeter measurement, once per month

Frequent use of illumination runs down the battery.

City Code Table

City Code	City	UTC Offset/ GMT Differential		City Code	City	
PPG	Pago Pago	-11		MOW	Moscow	
HNL	Honolulu	-10		JED	Jeddah	
ANC	Anchorage	-9		THR	Tehran	
YVR	Vancouver	0		DXB	Dubai	
LAX	Los Angeles	-0		KBL	Kabul	
YEA	Edmonton	7		KHI	Karachi	
DEN	Denver	-/		DEL	Delhi	
MEX	Mexico City	e		KTM	Kathmandu	
CHI	Chicago	-0		DAC	Dhaka	
NYC	New York	-5		RGN	Yangon	
SCL	Santiago	4		BKK	Bangkok	
YHZ	Halifax	-4	-	SIN	Singapore	
YYT	St. Johns	-3.5		HKG	Hong Kong	
RIO	Rio De Janeiro	-3		BJS	Beijing	
FEN	Fernando de	0		TPE	Taipei	
FEIN	Noronha	-2		SEL	Seoul	
RAI	Praia	-1		TYO	Tokyo	
UTC				ADL	Adelaide	
LIS	Lisbon	0		GUM	Guam	
LON	London			SYD	Sydney	
MAD	Madrid			NOU	Noumea	
PAR	Paris	+1		WLG	Wellington	
ROM	Rome		-	Based on data a		
BER	Berlin		 The rules g 		ules governin	
STO	Stockholm		differential and l			
ATH	Athens		individual count		dual country	
CAI	Cairo	Cairo +2		individual country		
JRS	Jerusalem					

ington +12 lata as of December 2009. overning global times (GMT and UTC offset) and e are determined by each ountry

UTC Offset/ GMT Differential

+3

+3.5

+4

+5.75

+6

+8

+9

+9.5

+10

+11